

#### **Sacramento Area Council of Governments**

# **Connecting "the D's" to Vehicle Miles Traveled in the Sacramento Region**

Presentation to
SB375 Regional Targets Advisory Committee
February 3, 2009

## **Purpose**

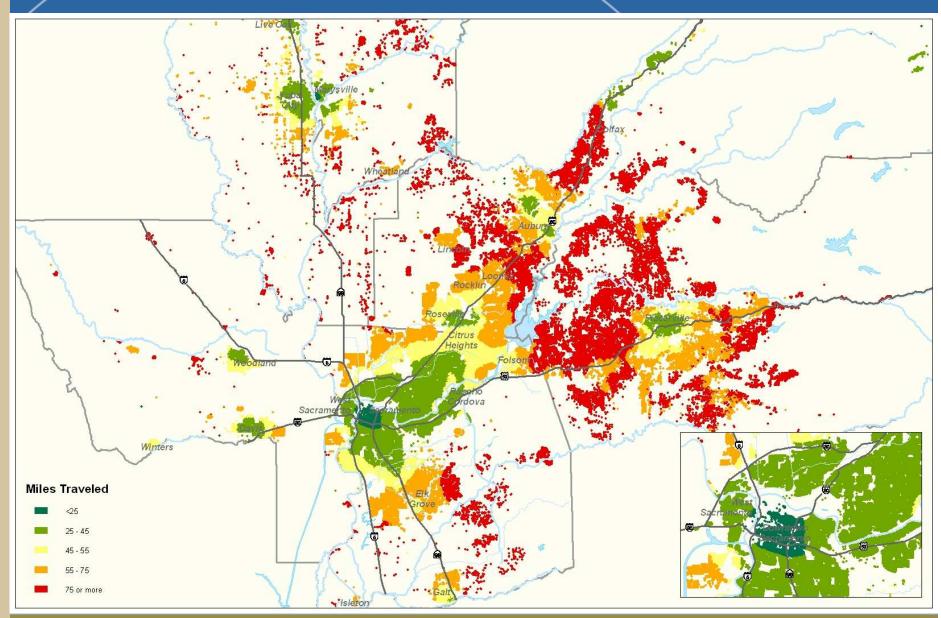


- Show one practical, regional planning application of the D's
- Provide examples of MANY ways to reduce VMT going forward
- Demonstrate that system-wide improvements happen over time
- Stimulate focused RTAC discussion and debate

#### **Qutline**



- Vehicle miles traveled as primary indicator
  - Defining area types by average VMT per household
- Land use characteristics of VMT-defined areas
- Drilling down to specifics in prototype areas
- Forecasting results

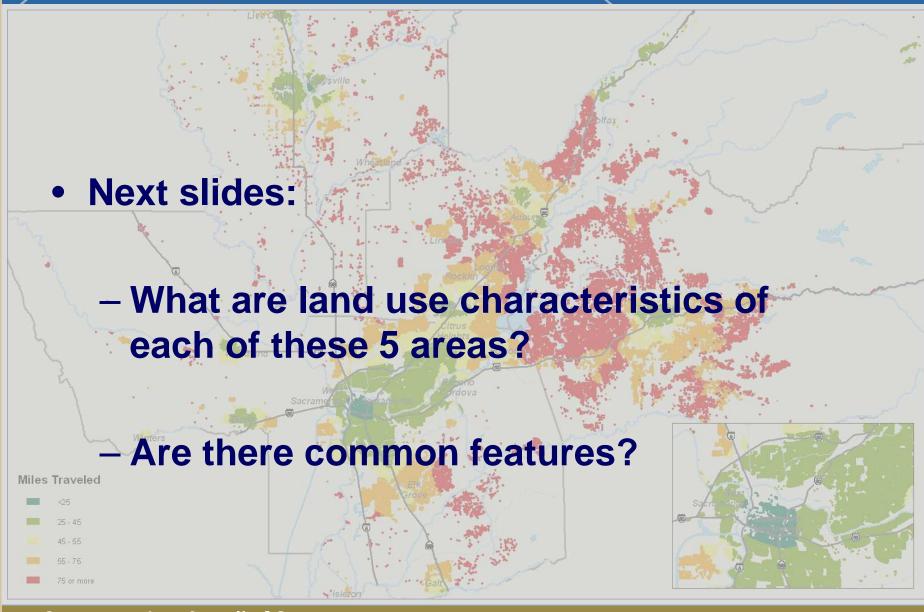


- 2005 reg. average VMT/HH = +/-50 miles
  - Dark green = Group 1--Very Low VMT (< 25 miles)</li>
  - Light green = Group 2--Low VMT (25 45 miles)
  - Yellow = Group 3--Average(45-55 miles)
  - Orange = Group 4--High (55-75 miles)

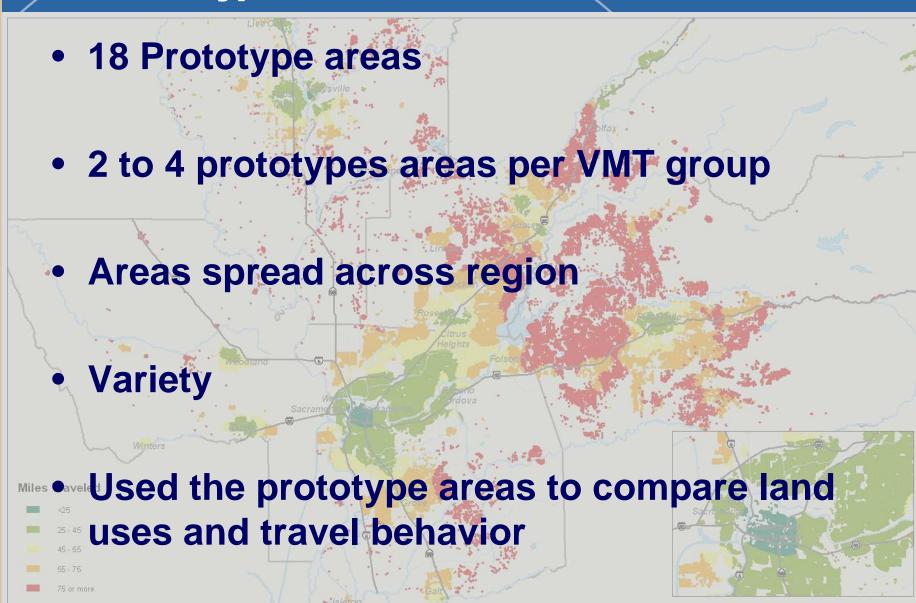
Miles Traveled

25
25-45
45-55

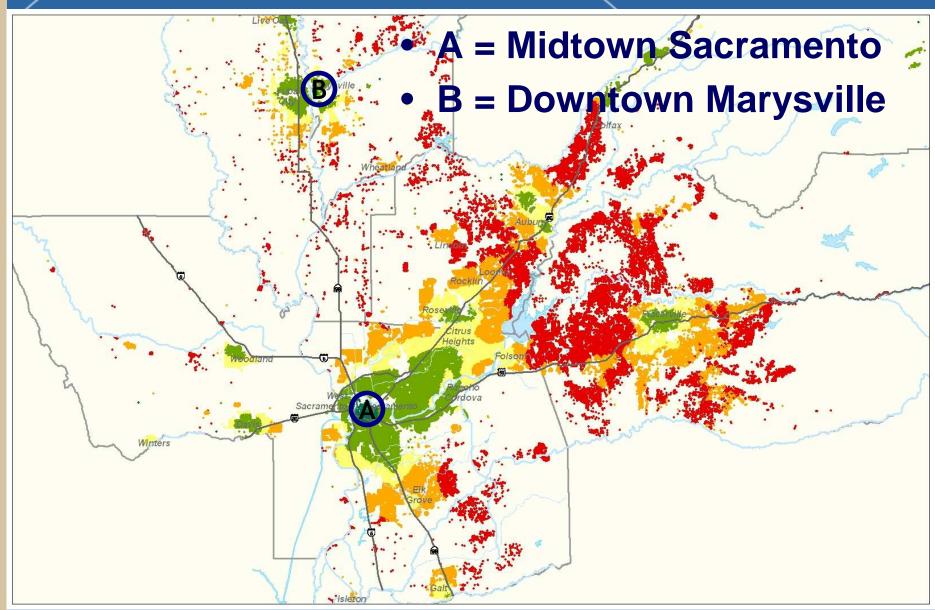
Red = Group 5--Very High (75+ miles)



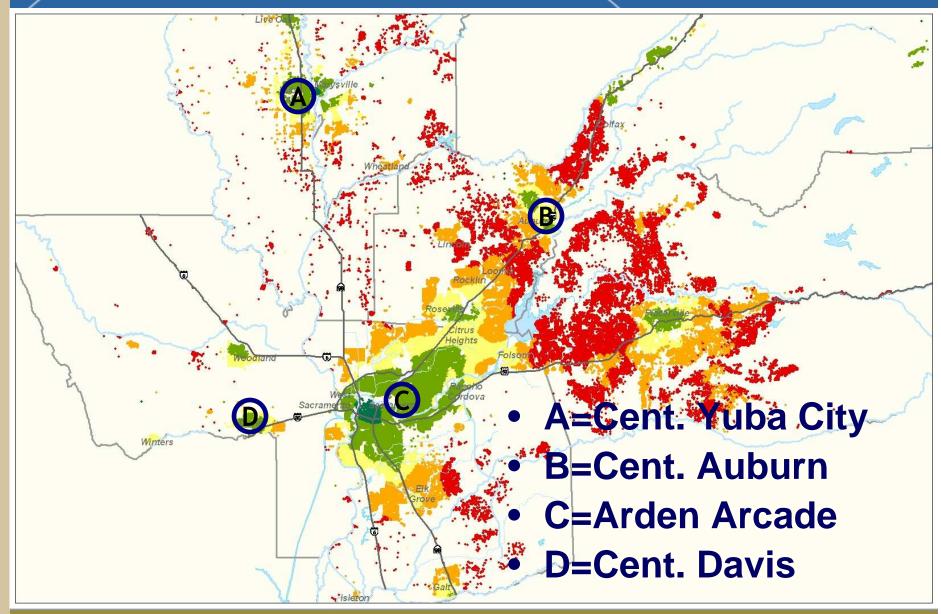
#### VMT Prototype Areas



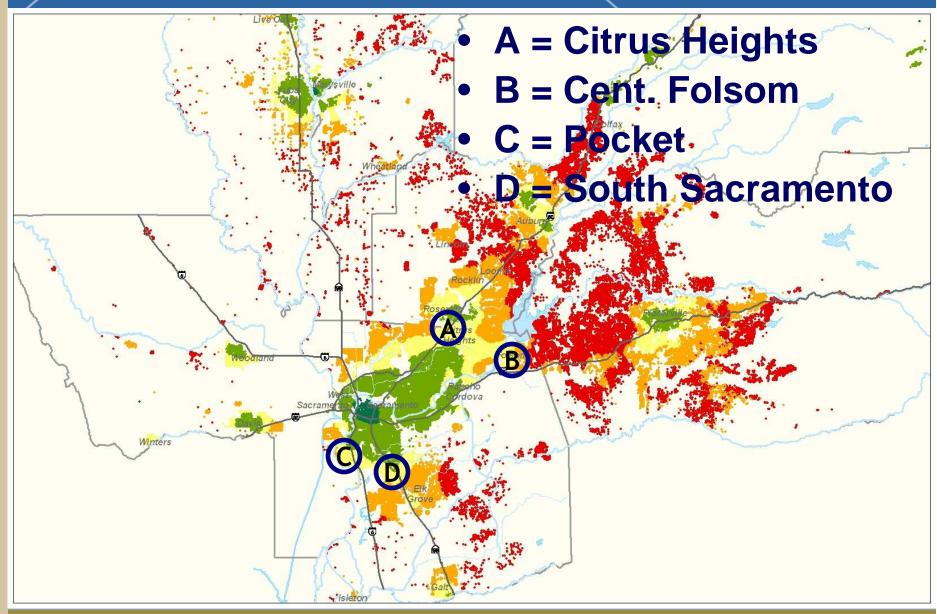
## **Very Low VMT Prototypes (Group 1)**



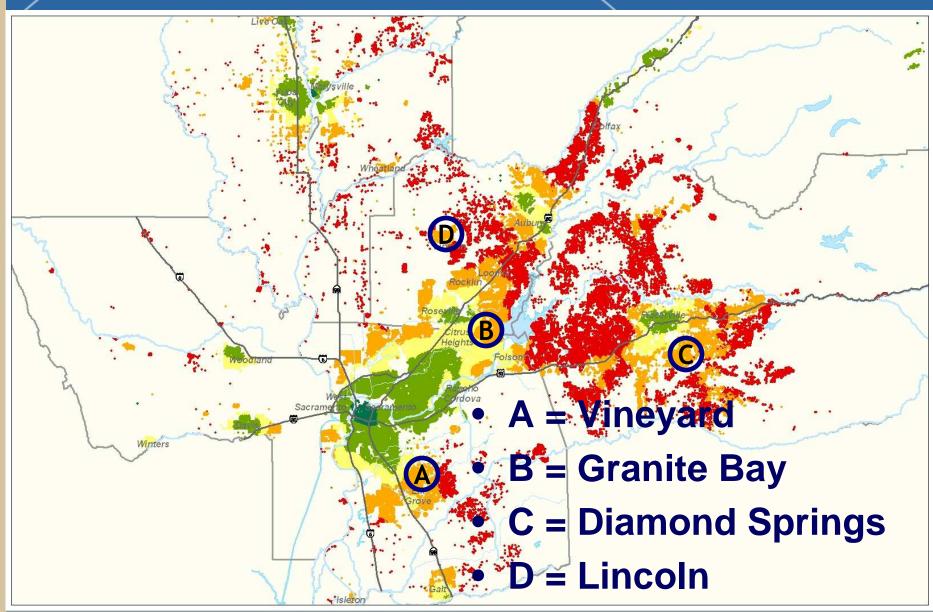
### **Low VMT Prototypes (Group 2)**



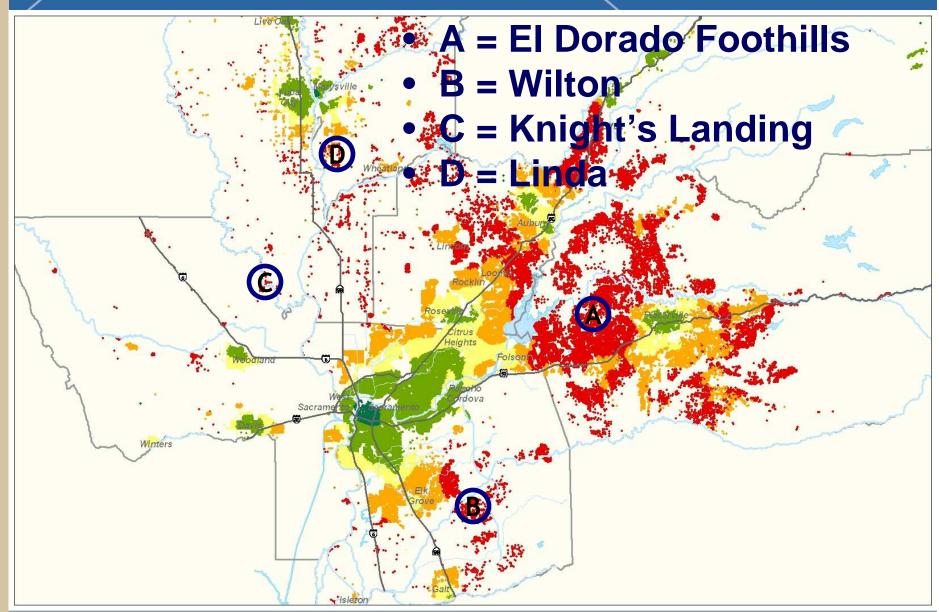
#### **Average VMT Prototypes (Group 3)**



## High VMT Prototypes (Group 4)



## Very High VMT Prototypes (Group 5)

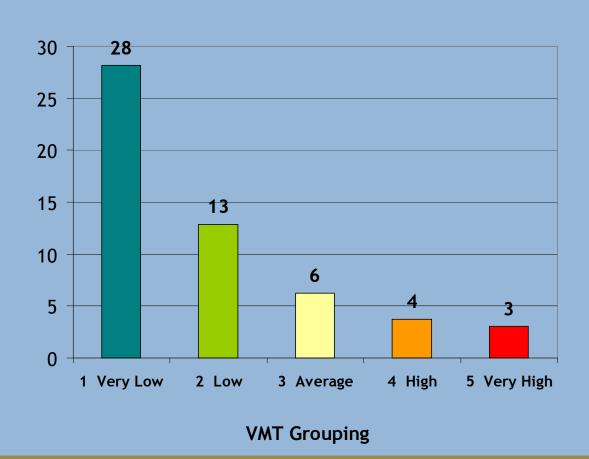


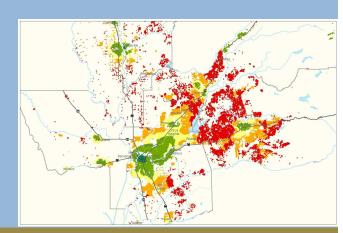
#### **Density in Prototype Areas**

 Density = Jobs + housing per acre at place of residence



Higher density = lower VMT

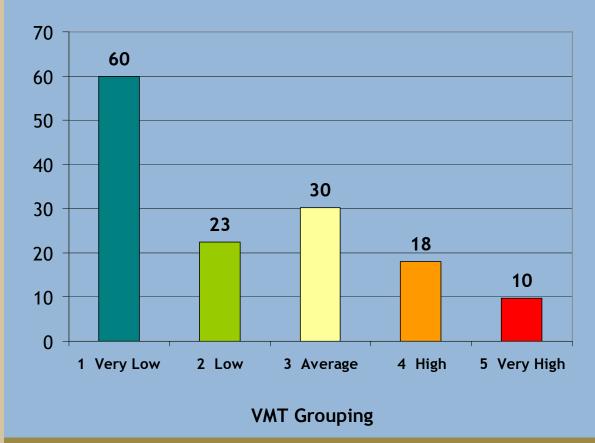


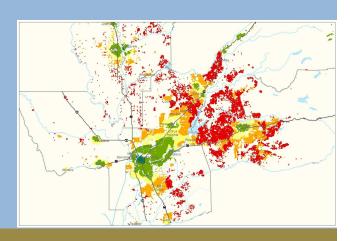


#### **Street Pattern in Prototype Areas**

- Street pattern = density of good intersections at place of residence
- Better street pattern = lower VMT





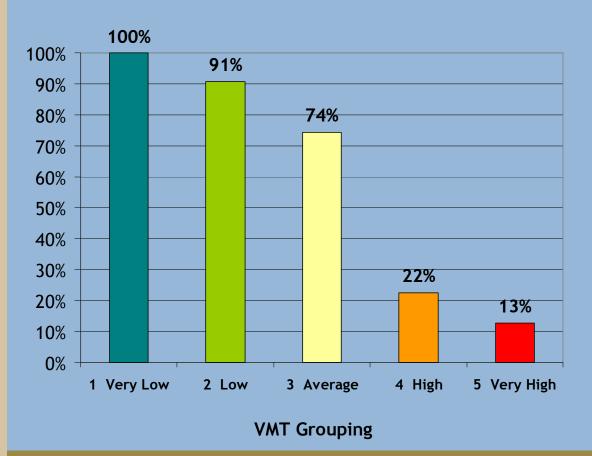


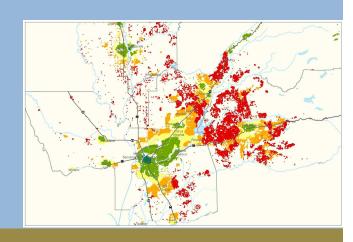
#### **Transit Proximity in Prototype Areas**

Proximity = % of households within ¼ mile of nearest transit



Higher proximity = lower VMT



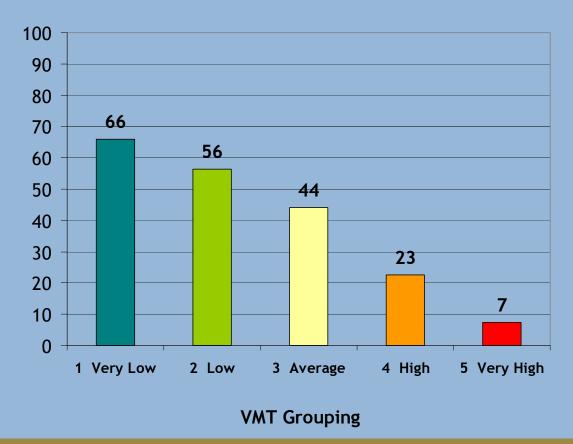


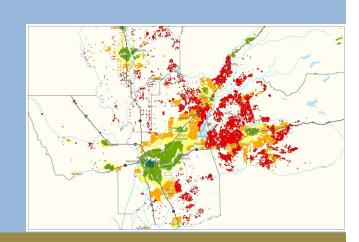
#### Mix of Use in Prototype Areas

 Mix Index = 0 (homogeneous development) to 100 (balanced mix)



More balanced mix = lower VMT

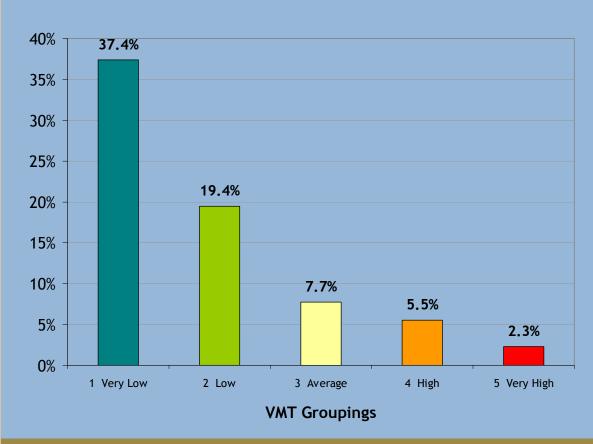


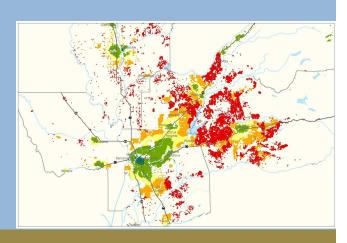


#### **Bike/Walk Mode Share in Prototype Areas**

- Regional Average = 7.5 %
- Higher share in lower VMT areas



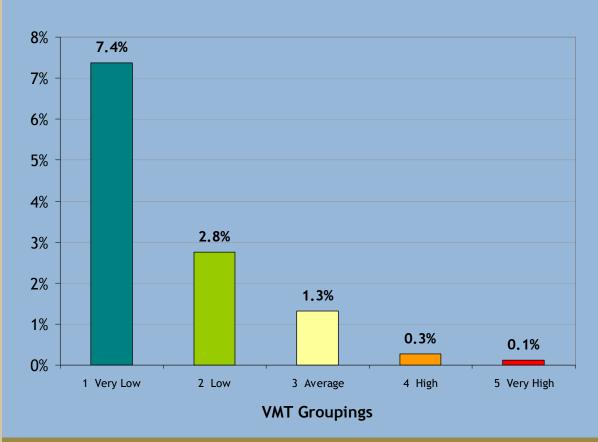


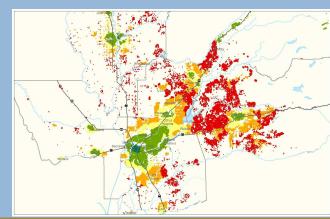


#### **Transit Mode Share in Prototype Areas**

- Regional Average = 1.2 %
- Higher share in lower VMT areas



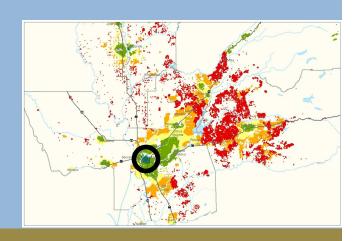




# Drill Down into Lower VMT Prototype Areas (Groups 1 and 2)



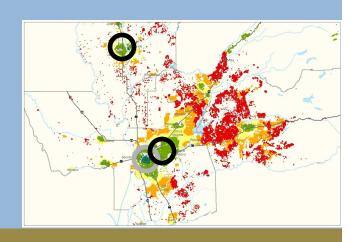
- Very Low VMT area (Group 1)
  - Midtown Sacramento

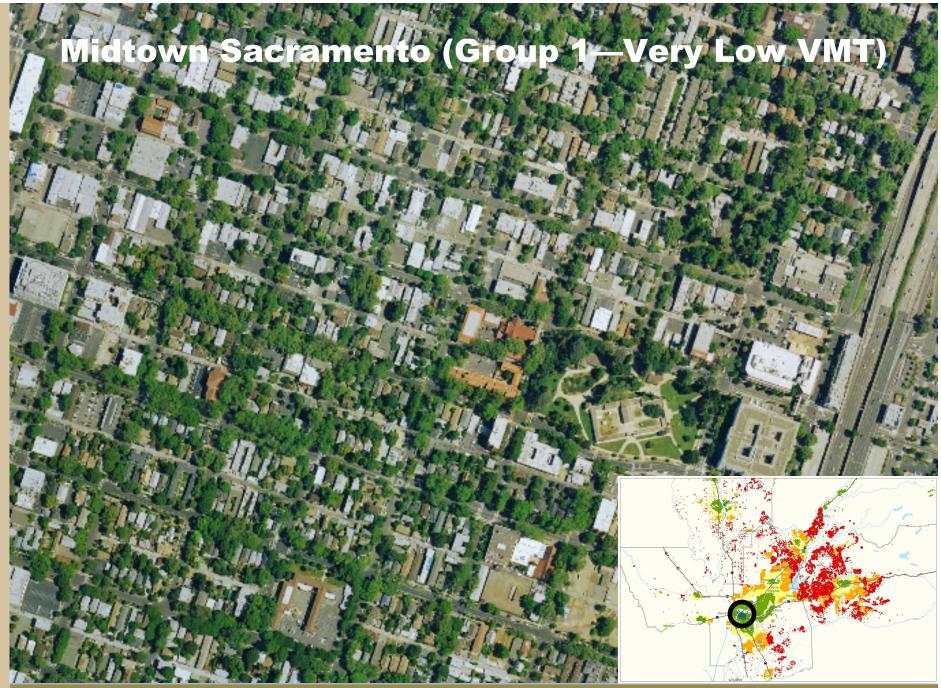


# Drill Down into Lower VMT Prototype Areas (Groups 1 and 2)



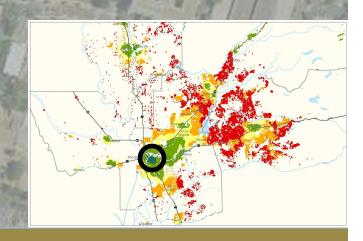
- Very Low VMT area (Group 1)
  - Midtown Sacramento
- Low VMT areas (Group 2)
  - Arden Arcade
  - Yuba City

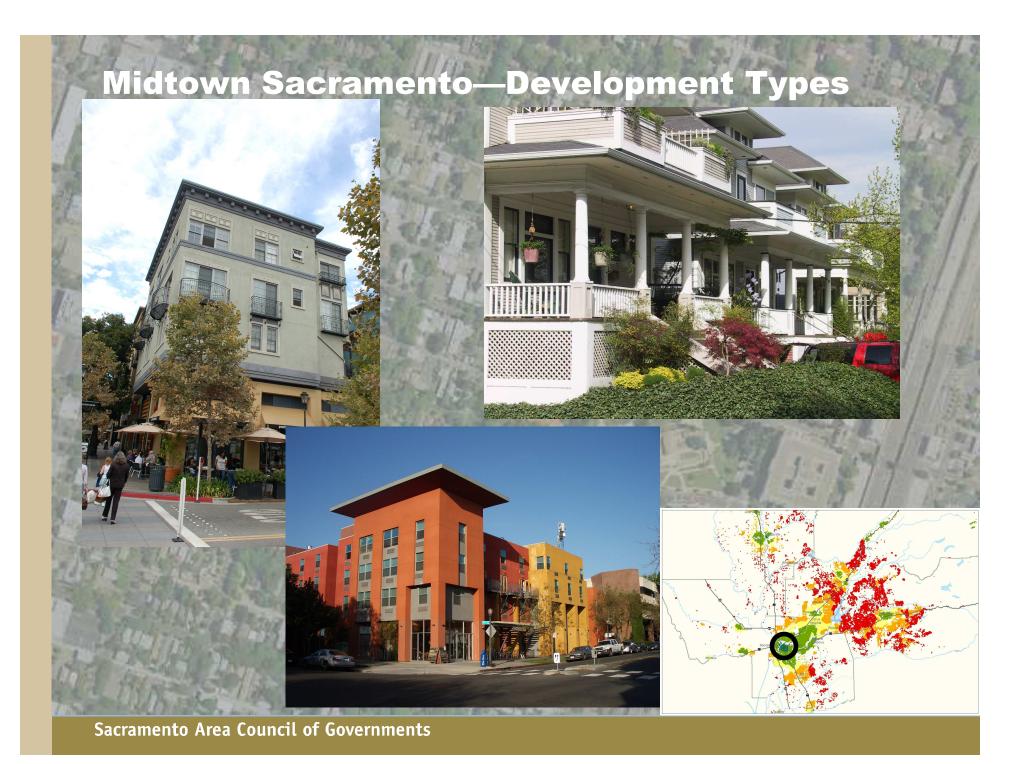




### Midtown Sacramento—Land Use

- Adjacent to CBD
- Mixed office, retail, residential
- Small-lot single family + apartments
- Small blocks, grid pattern
- High frequency transit

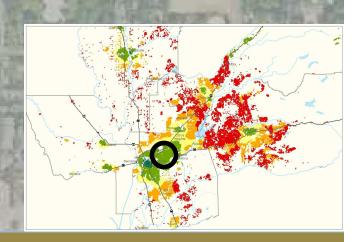




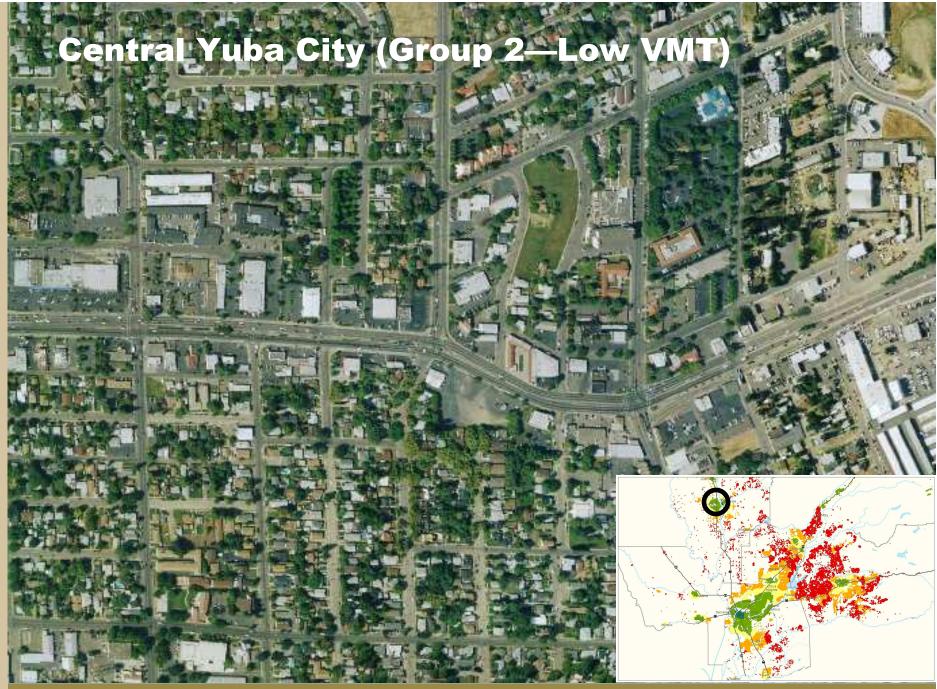


#### **Arden Arcade—Land Use**

- Inner suburban, 5 miles from CBD
- Low/medium density retail and commercial strip
- Large-lot single family + some large scale multifamily
- Large blocks, fragmented street pattern
- High frequency transit

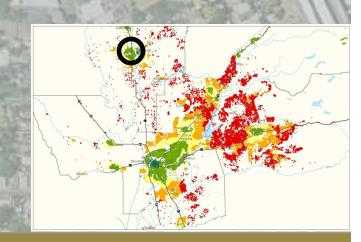






## Central Yuba City—Land Use

- Historic farm-market town
- Strip commercial and large lot single family residential
- Medium street grid in residential, large blocks in commercial and retail areas
- Low frequency transit

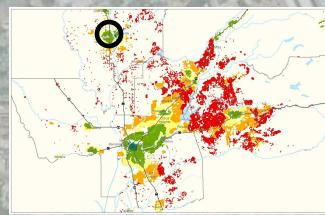


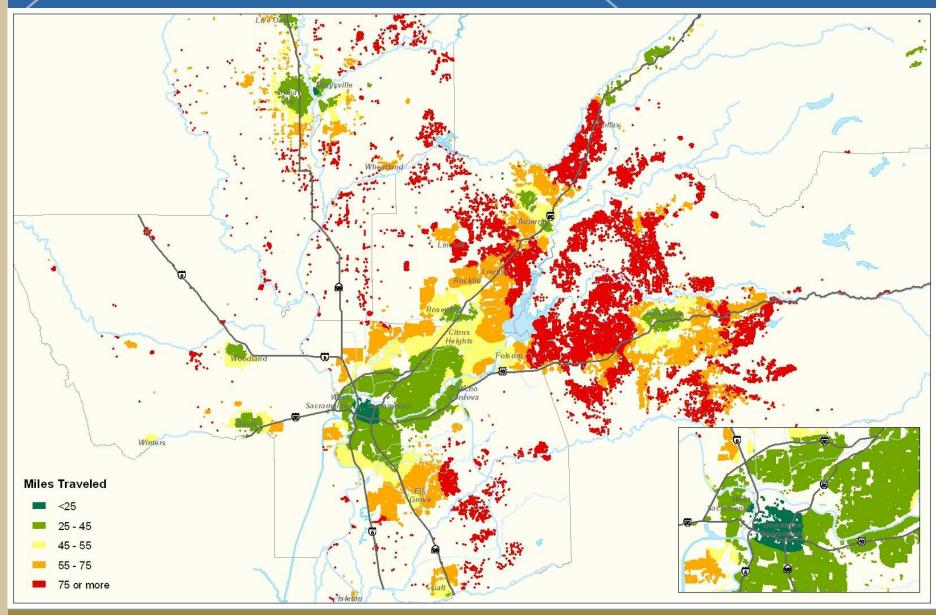
## Central Yuba City—Development Types



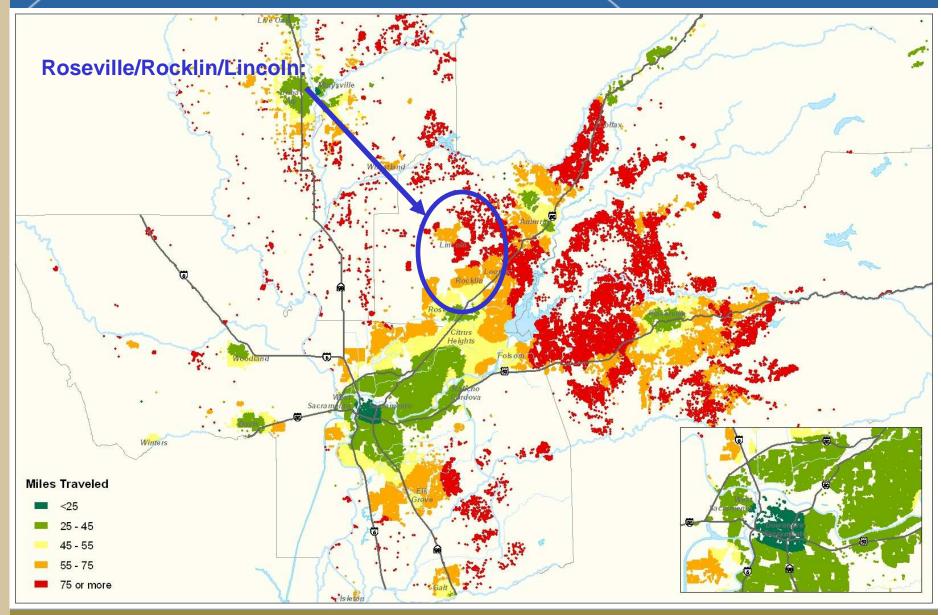




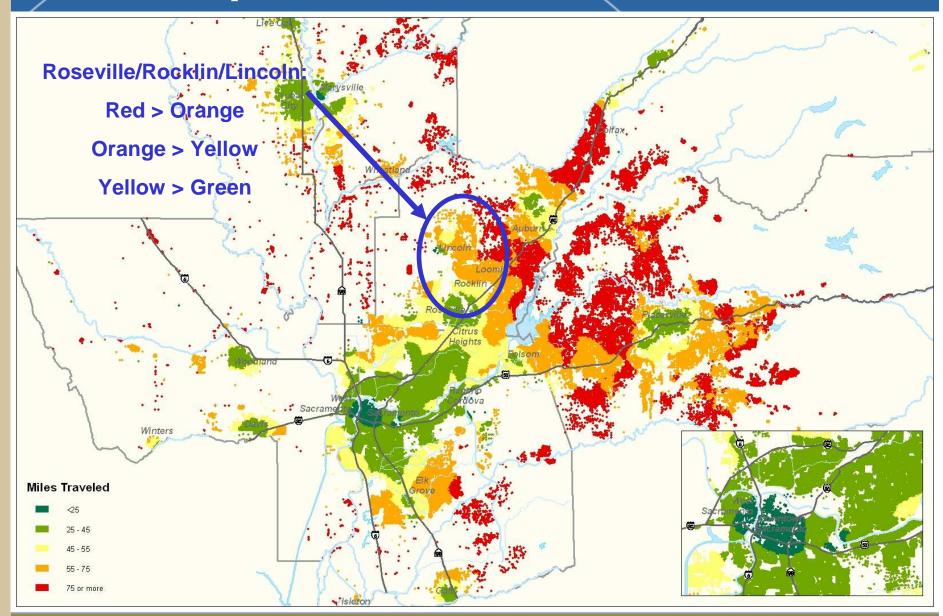




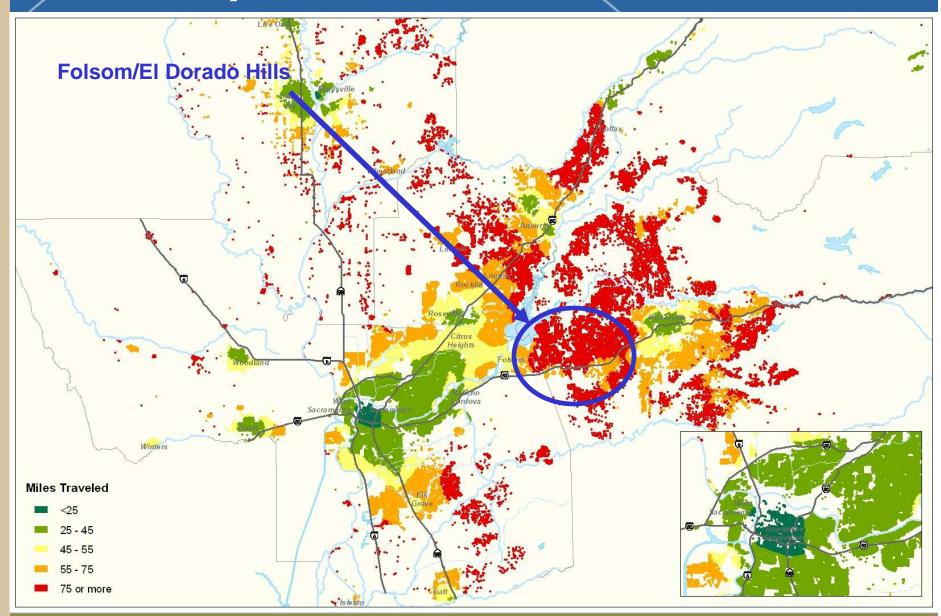
## Areas of Improvement: 2005 VMT / HH



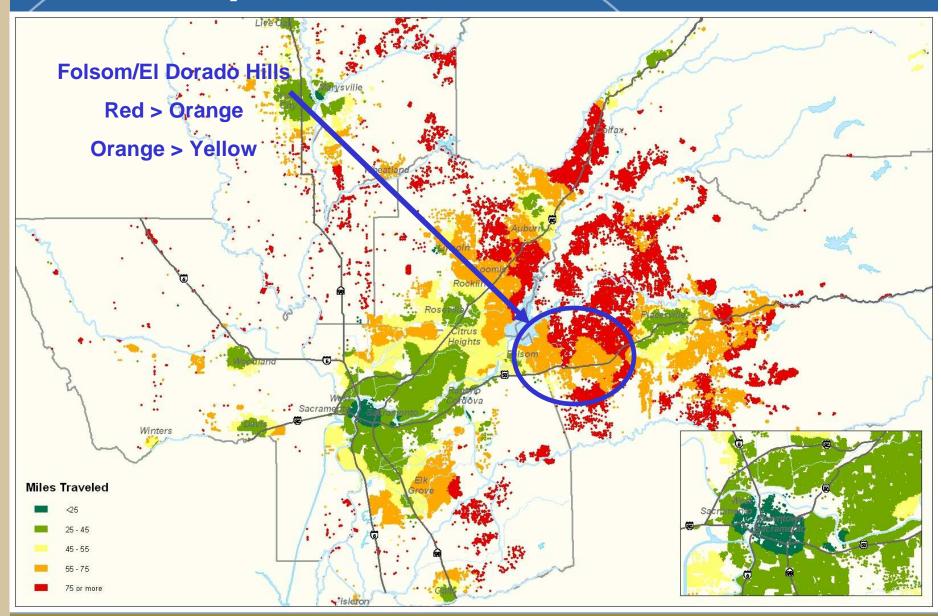
# Areas of Improvement: 2035 MTP VMT / HH



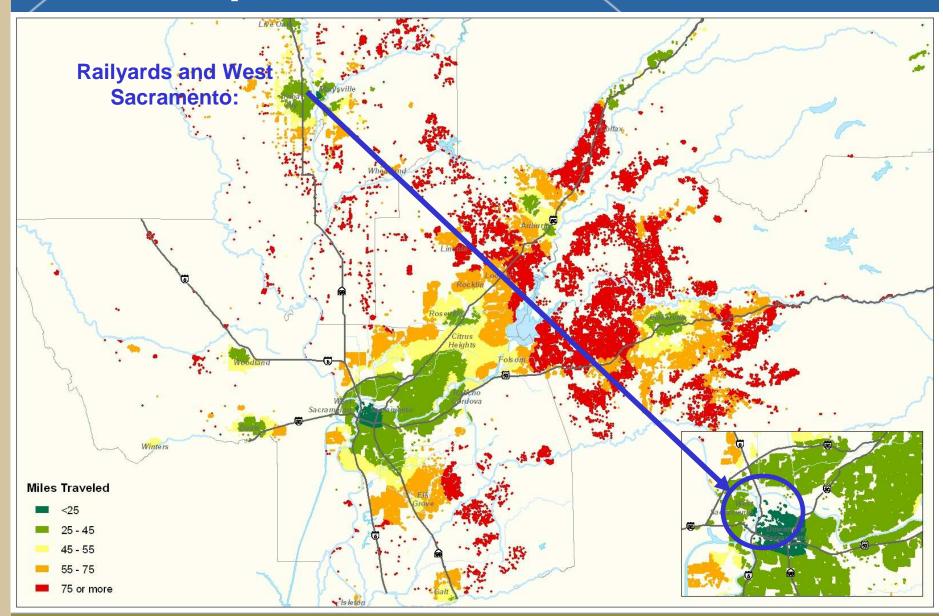
## Areas of Improvement: 2005 VMT / HH



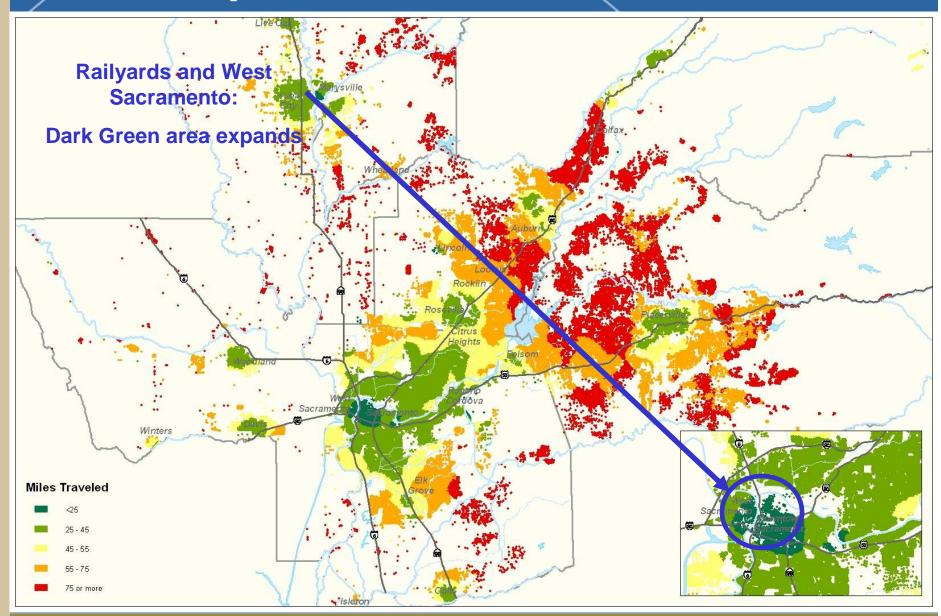
## Areas of Improvement: 2035 MTP VMT / HH



## Areas of Improvement: 2005 VMT / HH



## Areas of Improvement: 2035 MTP VMT / HH



#### Regional Baseball Analogy

- From Christopher Leinberger
- Unique roles for cities within a region
- Not "one size fits all"



